



HF Happenings

No 518

August 2012

The photograph in HF Happenings 517 was taken in Burgersdorp in the North-Eastern Cape. This is a view of the Reformed Church in town.

SARL HF Digital Contest

The aim of the HF Contests is for participants to tact as many amateurs in Southern Africa (General Rules para 1.b.) as possible on 20, 40 and 80 metres. The SARL HF Digital contest will be run from 13:00 to 16:00 UTC [15:00 to 18:00 CAT] on Sunday 19 August with PSK31 and RTTY activity on 14 070 to 14 099 kHz; 7 040 to 7 060 and 3 580 to 3 600 kHz.

PSK31 is preferred at the lower end of the specified frequencies and RTTY is preferred at the upper end of the specified frequencies. Please note that USB must be used at all times. Refer to General Rule #16

Participation can be as a a) Single Operator Single Band; b) Single Operator All Band; c) Multi Operator Single Band or d) Multi Operator All Band. Individual competitors and club stations are encouraged to compete. The exchange is a RST report and a consecutive serial number starting at 001.

Each digital QSO counts 3 point. Count two points for each area (see below) on each band and count 2 points for each station contacted on all three bands.

The areas are - Area 1: ZS1 Western Cape; Area 2: ZS2 Eastern Cape; Area 3: ZS3 Northern Cape; Area 4: ZS4 Free State; Area 5: ZS5 KwaZulu-Natal; Area 6: ZS6 Gauteng, Mpumalanga; Limpopo and North West; Area 7: 3B8 Mauritius, 3DA Swaziland, 7P Lesotho, 7Q Malawi, C9 Mozambique, Z2 Zimbabwe, 5R Madagascar, FR Reunion Island and FH Mayotte and Area 8: 9J Zambia, A2 Botswana, D2 Angola, V5 Namibia, ZD9 Gough and Tristan da Cunha Islands, ZS7 Antarctica and ZS8 Marion Island. Contacts with stations outside these areas are allowed, QSO points may be claimed but no zone or three-bander points may be claimed.

Certificates are awarded to the first three places and the highest single band score in each contest. There is also a trophy for the highest combined score in three contests.

South African Radio League
Suid-Afrikaanse Radioliga

Member Society of the In-
ternational Amateur Radio
Union since 1925

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http://groups.yahoo.com/group/HF_Happenings

Why not give QRP contesting a try during the next couple of weekends?





Logs must be sent to the Bloemfontein ARC, Box 33211, Fichardt Park, 9317 or by e-mail to zs4bfn@netactive.co.za by Sunday 26 August.

2012 SARL Winter QRP Results

For the SARL Winter QRP contest held on 21 July, the committee received 15 logs and 1 check log. The results are as follows:

- 1st Gerrit Rautenbach, ZS2XD - 2 436 points
- 2nd Lukas Holtzhuizen, ZS6LH - 1 560 points
- 3rd Andre Botes, ZS2ACP - 1 452 points
- 4th Pierre van Deventer, ZS6A - 1 404 points
- 5th West Rand ARC, ZS6WR - 1 110 points
- 6th Christo van Rensburg, ZS3R - 1 060 points
- 7th Kenneth Gurr, ZR5KW/6 - 738 points
- 8th Pam Momberg, ZS6APT - 720 points
- 9th Christo Kriek ZR6LJK - 656 points
- 10th Eddie Leighton, ZS6BNE - 462 points
- 11th Theunis Potgieter, ZS2EC - 384 points
- 12th Marius Snyman, ZR6MS - 288 points
- 13th Peet Pretorius, ZS4VP - 228 points
- 14th Dennis Green, ZS4BS - 180 points (operating QRP from KG20td, KG20tc, KG20ub and KF29vx)
- 15th Nigel Burgess, ZR6NGB - 160 points

Check log - Derek Stuart, ZS2J - 56 points
Congratulations to Gerrit for his achievement. It just goes to show what can be achieved if you go the extra mile.

A new CQ World Wide Contest rule

There is a new CQ World Wide Contest rule: "13. Post-contest correcting of call signs by using any database, recordings or confirming QSOs is not allowed (Rule XII.2 always applies)" reads the new language in the CQ rules.

From the radio-sport.net article about the rule change, "The message there is very clear, that post-contest log cleanup by using outside aid - whether it is call sign databases or recordings of the contest are now clearly considered against the rules."

Let us not make this too complicated - identify your station, log what is sent, send the complete exchange, and do not change your log after the contest except for notes made during the contest period. Period.

Propagation forecast app

DroidProp is a propagation forecast app for the HF bands, based on VOCAP (Voice of America Coverage Analysis Program). It calculates the current and future HF propagation condi-

August

- 5 - SARL HF Phone Contest
- 9 - National Women's Day; SARL YL Sprint
- 9 to 11 - Schreiner Karoo Writers festival, Cradock; Oppikoppi, Northam, Limpopo
- 10 - School holiday
- 11 - Fort Nottingham Highland Games, Fort Nottingham
- 10 to 12 - The Ross Taylor Benefit Surf Contest, Knysna; Slow 2012, Robertson
- 18 - World Geocaching Day
- 18 and 19 - International Lighthouse and Lightship Weekend
- 19 - SARL HF Digital Contest
- 19 - Oude Molen Distillery Mountain Bike Challenge, Elgin Valley
- 24 and 25 - Hantam Meat Festival, Calvinia
- 24 to 31 - Clanwilliam Wild Flower Show
- 26 - SARL HF CW Contest
- 31 Aug to 2 Sept - Winter Festival, Williston

September

- 1 - ZS6JVT 40 m Youth Contest
- 1 to 7 - National Arbour Week
- 5 - Secretaries Day
- 15 and 16 - SARL VHF/UHF Contest
- 16 - World Ozone Day
- 21 - Closing date October RAE
- 24 - Heritage Day; SARL Heritage Day Contest
- 26 - SARL Club Contest, SSB
- 27 - World Tourism Day
- 28 - Schools close

If you are attending any events, take your amateur radio with and spread the word about our hobby!





tions on the device; an internet connection is only needed for updating the solar data. It is currently still in beta state but fully functional. Download (free) and information at <https://play.google.com/store/apps/details?id=info.schaeuble.droidprop>

2EOEYP and M1EYP complete England!

Father and son team Tom Read, M1EYP, and Jimmy Read, 2EOEYP, have 'completed England' in Summits on the Air.

Tom and Jimmy can now claim to have activated each of the 176 summits currently in the English (G) SOTA Association, and six more that were previously valid.

Tom, who had been activating in SOTA since 2002, needed to revisit many of the completed hills after his son Jimmy became licensed (originally as M3EYP) in 2005, and expressed his ambition to activate all the same hills as his dad! Since then, the duo have visited all hilly and mountainous areas of England, and completed all the SOTA regions: Southern Pennine (SP), Welsh Borders (WB), Devon & Cornwall (DC), South Central (SC), Southern England (SE), Central England (CE), Tees to the Wash (TW), Scottish Borders (SB), Northern Pennines (NP) and Lake District (LD).

Tom and Jimmy have also activated a further 104 summits in Wales, Scotland and Northern Ireland over the last seven years, and retain ambitions to visit many more, including those in the Isle of Man. The pair from Macclesfield in Cheshire are both holders of the SOTA Mountain Goat award for achieving 1 000 activator points in the programme, and walked the full-length Pennine Way (268 miles) in 2006 as part of their SOTA activities.

The final summit needed to complete the association was Harter Fell (Eskdale) G/LD-028, 654 m ASL. This took place on Sunday 29 July 2012, after a steep ascent from Dunnerdale. Jimmy operated using his special Olympic Games call sign of 2O0EYP/P and made 33 contacts on 2 m FM using a Yaesu VX-110 transceiver and 3-element SOTA Beam antenna. Tom also used a special Olympics call sign - M01EYP/P - and made 40 contacts, mainly on 40 m CW. Tom's working conditions were 5 watts from a Yaesu FT-817 into an inverted V dipole antenna.

Jimmy is the Association Manager for the SOTA programme in England, so it is a particularly proud achievement for him to have activated all of its summits. The pair have a website on which a photo journal of all their SOTA activations can be seen. This includes each of the 182 English summits, and all of the 286 UK summits so far activated. The website is at <http://tomread.co.uk>. For more information about the Summits on the Air programme, please visit <http://www.sota.org.uk>



Analysing the 2011 CQ World Wide contests

Stan EI6DX/UA1OUT has just released a big report analysing the 2011 CQ World Wide contests. The website has a "live" analyser and there are many statistics on the contests from 2007 to 2011 that make fascinating reading.

<http://www.ei6dx.com/cqww-contest-analysis/analytics-cqww-2007-11/>

Bob, N6TV, finds, "...to me the most useful and fun is to see the band openings to a specific area, from a specific area and gives the following instructions:

1. From the EI6DX website, launch the analyser

<http://www.ei6dx.com/cqww-contest-analysis/cqww-activity-analyzer/>

2. On the *Source* tab, uncheck *All Zones Available*

3. Click on the little arrow next to *North America* (not the checkbox) to expand the list





4. Select your CQ WW Zone
5. Click on the *Destination* tab and pick any area using the same method, e.g. Europe or Japan
6. Click the *Refresh* button
7. At the bottom of the graph, click the last button to Maximize Chart
8. Click the next button to the left, *Show/Hide Configuration View*
9. Change Aggregation Interval to 10 minutes and pick any band you want, click Apply to see more detailed band openings
10. Other buttons let produce a nice rate sheet grid instead of graph.

All Nine Azores Islands, CU1 to CU9, Activated At Once

Are you ready to fly to the Azores for free by making nine QSOs?

Yes indeed, those of you willing to spend 24 hours or less on the radio are eligible to participate in an Azores lottery for two all-paid packages to the beautiful Azores Islands in the Atlantic, completely free of charge. The project is organised by the Azores - Finland Friendship Consortium in partnership with the Amateur Radio Associations of the Azores Islands and supported by the Azores Promotion Agency (ATA) and Azorean Airlines (SATA). Just look at www.visitazores.com and make up your mind.

Not many people know that the Azores consist of nine populated islands, stretching over a distance of 602 km from East to West, next to the USA and Europe. Moreover, it is not widely known that the Azores have their own airline (SATA) flying to each island, in addition to many destinations in Europe and North America. Each island has its own characteristics and its own blend and alone qualifies for your visit there. While these islands count for a single DXCC entity, they offer three (3) IOTA groupings - EU-003, EU-089 and EU-175.

With this unique AZORES 9 ISLANDS HUNT, an invited international group of amateur radio operators together with resident Azores amateurs will be activating the nine islands, offering an opportunity to the world to contact these islands all at once over one weekend.

Activity Weekend

12:00 UTC Saturday 29 September 12:00 UTC Sunday 30 September (24 hours). These stations will be active starting Friday 28 September 28 as soon as they become operational.

Frequency Windows

CW: 7 000 - 7 015, 14 050 - 14 065 and 18 080 - 18 090 kHz

SSB: 7 175 - 7 195, 14 250 - 14 275 and 18 120 - 18 135 kHz

Nine Islands and their Stations

Santa Maria, CU1ARM; San Miguel, CU2ARA; Terceira, CU3URA; Graciosa, CU4ARG; Sao Jorge, CU5AM; Pico, CU6GRP; Faial, CU7CRA; Flores, CU8ARF, and Corvo, CU9AC.

Operators and Island Hosts

Sergio, CU1AAD; Jose, CU2CE; Francisco, CU2DX; Guilherme, CU2IF; Domingo, CU3CS; Guilherme, CU4AB; Jose, CU5AM; Jorge, CU6AB; Manuel, CU7CA; Claudio, CU8AAE; Joao, CU9AC; Franz, DJ9ZB; Richard, DF9TF; Nigel, G3TXF; Michael, G7VJR; Diane, K2DO; Rich, KE3Q; Mike, KI1U; Marius, LB3HC; George, N2GA; Martti, OH2BH; Juha, OH8NC; Ghis, ON5NT; Carine, ON7LX; Claude, ON7TK; Alex, OZ7AM; Kenneth, OZ1IKY; Yuri, VE3DZ, and Ed, VE3FWA.

Two Hunt Awards

"Amateur radio is the most exciting of all technological hobbies"





Those making a QSO with at least 5 different islands will have a corresponding number of tickets placed into a lottery for a free trip to the Azores (e.g. if you have QSOs with 7 islands, you will get 7 lottery tickets). Additionally, the first 25 operators making QSOs with all 9 islands will be eligible for a second lottery. The free trips are from the closest airport served by SATA; including flight, accommodation and transfers.

During or immediately after the weekend, the logs will be posted on Club Log to display your band/mode slots. The lottery will be drawn on 15 October 2012.

QSL Cards

All QSOs will be confirmed through the bureau network with special full-colour cards. Direct QSL requests via Jose Melo, CU2CE.

Word to the Wise

Lockout - a device, hardware or software, that prevents a multi-operator, single-transmitter entry from transmitting more than one signal at a time.

African DX

Mauritania, 5T0. A group of Polish radio amateurs, SP2EBG, SP3CYY, SP3GEM, SP6EQZ, SP3FXV and SP6IXF, with the special participation of Jean, 5T0JL, will be active as 5T0SP between 24 November and 10 December from Mauritania. Activity will be on all HF bands, 160 - 10 metres using CW, SSB and RTTY. There will be a focus on JA and Far East. A Web page is currently under construction at <http://www.5t0sp.dxing.pl>

African Islands

5R8FL QSL route change. Phil, G3SWH, reports: "It is with great regret that I have to announce that Andreas, 5R8FL, has terminated my QSL managership of his station with effect from the end of July 2012. I have his logs up to the end of June 2012 and am awaiting the log for July. I will be uploading the latest logs to LoTW and to the search facility on my web site in the next few weeks. I have plenty of proper QSL cards left. I have been given no reason for the termination and have no information as to whether Andreas has made any alternative arrangements for confirming his future QSOs."

Special Event Stations

Belgium, ON. The special event station ON4YOTA (Youngsters on the Air) will be on the air during the Youth Camp organised by UBA and VERON from 19 to 26 August. QSL via ON9CFG. <http://www.iaru-r1.org>

Great Britain and France. GB175PO and TM175PO are special event call signs operated from Dover and Calais to commemorate the 175th jubilee of the P&O ferries. Operation will take place throughout August, occasionally from the ferries.

Contest Calendar

This week's contests compiled by Bruce Horn, WA7BNM. The period covered is 13 to 20 August 2012.



**NAQCC Straight Key/Bug Sprint**

00:30 - 02:30 UTC 15 August

Mode: CW

Bands: 80, 40, 20 m

Classes: (none)

Max power: 5 watts

Exchange: RST, state, province or country and NAQCC no or power

Work stations: Once per band

QSO Points: 1 point per QSO with non-member; 2 points per QSO with member

Multipliers: Each state, province or country once

Key Type Mult: 2 x if straight key, 1,5 x if bug, 1 x if other

Score Calculation: Total score = total QSO points x total mults x key type mult

Submit logs by: 23:59 UTC 18 August 2012

E-mail logs to: naqcc33@windstream.netUpload log at: <http://naqcc.info/sprintlog.html>

Mail logs to: John Shannon, K3WWP, 478 E. High St., Kittanning, PA 16201, USA

Find rules at: <http://naqcc.info/sprint201208.html>**QRP Fox Hunt**

01:00 - 02:30 UTC 17 August

Mode: CW

Bands: 20 m Only

Classes: Single Op - fox or hound

Max power: 5 watts

Exchange: RST, state, province or country, name and power output

QSO Points: 1 point per QSO

Multipliers: (none)

Score Calculation: Total score = total QSO points

Submit logs by: 02:30 UTC 18 August 2012

E-mail logs to: (see rules)

Mail logs to: (none)

Find rules at: http://www.qrpfoxhunt.org/summer_rules.htm**NCCC Sprint Ladder**

02:30 - 03:00 UTC 17 August

Mode: CW

Bands: 160, 80, 40, 20, 15 m

Classes: Single Op

Max power: 100 watts

Exchange: (see rules)

Work stations: Once per band

QSO Points: NA station: 1 point per QSO; non-NA station: 1 point per QSO with an NA station

Multipliers: Each US state (including KL7 and KH6) once per band; Each VE province once per band; Each North American country (except W/VE) once per band

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 19 August 2012

E-mail logs to: (none)

Post log summary at: <http://www.hornucopia.com/3830score/>

Mail logs to: (none)





Find rules at: <http://www.ncccsprint.com/rules.html>

SARTG WW RTTY Contest

00:00 - 08:00 UTC and 16:00 - 24:00 UTC 18 August and 08:00 - 16:00 UTC 19 August

Mode: RTTY

Bands: 80, 40, 20, 15, 10 m

Classes: Single Op All Band; Single Op All Band Low Power; Single Op Single Band; Multi-Single; SWL

Max power: HP: >100 Watts; LP: 100 Watts

Exchange: RST and serial no

Work stations: Once per band

QSO Points: 5 points per QSO with same country; 10 points per QSO with same continent; 15 points per QSO with different continent

Multipliers: Each DXCC country once per band; Each VK, VE, JA, W call area once per band

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 10 October 2012

E-mail logs to: contest@sartg.com

Mail logs to: SARTG Contest Manager, Ewe Hakansson, SM7BHM, Pilspetsvagen 4, SE-29166, Kristianstad, Sweden

Find rules at: <http://www.sartg.com/contest/wwrules.htm>

Russian District Award Contest

08:00 UTC 18 August to 08:00 UTC 19 August

Mode: CW, SSB

Bands: 160, 80, 40, 20, 15, 10 m

Classes: SOAB Mixed Mode - high or low; SOAB Mixed Mode Field; SOAB CW - high or low; SOAB CW Field; SOAB SSB - high or low; SOAB SSB Field; Multi-Single Mixed Mode; Multi-Single Mixed Mode Field; SWL

Exchange: RU: RS(T) and district code; non-RU: RS(T) and QSO no

Work stations: Once per band per mode

QSO Points: RU: 1 point per QSO with same country; RU: 2 points per QSO with same country, different continent; RU: 3 points per QSO with different country, same continent; RU: 5 points per QSO with different country, different continent; RU: 10 points per QSO between Field entrants; non-RU: 10 points per QSO with RU station

Multipliers: RU Stations: Each DXCC country once per band and each RDA district once only;

non-RU Stations: Each RDA district once only

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 19 September 2012

E-mail logs to: rx3rc@rdaward.org

Mail logs to: Roman A. Novikov, PO Box 21, 392000 Tambov, Russia

Find rules at: <http://rdaward.org/rdac1.htm>

Keyman's Club of Japan Contest

12:00 UTC 18 August to 12:00 UTC 19 August

Mode: CW

Bands: 160, 80, 40, 20, 15, 10, 6 m

Classes: Single Op Multiband; Single Op Single Band (JA Only); SWL

Exchange: JA: RST and prefecture/district code; non-JA: RST and continent code





QSO Points: JA Station: 1 point per QSO with JA station; JA Station: 5 points per QSO with DX station; DX Station: 1 point per QSO with JA station

Multipliers: Each JA prefecture once per band; JA Station: Each continent once per band

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 19 September 2012

E-mail logs to: kcj-log@kcj-cw.com

Mail logs to: H. Shiraki, 5-93-1 Goudo, Gifu-City, Gifu 501-0105, Japan

Find rules at: http://www.kcj-cw.com/contest/12_kcj_contest_rule_e.pdf

North American SSB QSO Party

18:00 UTC 18 August to 0600Z 19 August

Mode: SSB

Bands: 160, 80, 40, 20, 15, 10 m

Classes: Single Op - QRP or low; Multi-Two - low

Max operating hours: Single Op: 10 hours; Multi-Two: 12 hours

Max power: LP: 100 watts; QRP: 5 watts

Exchange: NA: Name and state, province or country; non-NA: Name

Work stations: Once per band

QSO Points: NA station: 1 point per QSO; non-NA station: 1 point per QSO with an NA station

Multipliers: Each US state (including KH6/KL7) once per band; Each VE province/territory once per band; Each North American country (except W/VE) once per band

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 1 September 2012

Upload log at: <http://www.ncjweb.com/naqplotsubmit.php>

Mail logs to: Bill Lippert, ACOW, 2013 6th Avenue SE, Austin, MN 55912-4321, USA

Find rules at: <http://www.ncjweb.com/naqprules.php>

CVA DX CW Contest

21:00 UTC 18 August to 21:00 UTC 19 August

Mode: CW

Bands: 80, 40, 20, 15, 10 m

Classes: Single Op - QRP, low or high; Single Op Single Band - low or high; Multi-Single

Max power: HP: >100 watts; LP: 100 watts; QRP: 5 watts

Exchange: RST and type/UF (see rules)

Work stations: Once per band

QSO Points: (see rules)

Multipliers: Each UF once per band; Each country once per band

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 15 September 2012

E-mail logs to: cw@craec.org

Mail logs to: (none)

Find rules at: <http://www.craec.org>

SARL HF Digital Contest

13:00 - 16:00 UTC 19 August

Mode: RTTY, PSK31

Bands: 80, 40, 20 m





Classes: Single Op All Band; Single Op Single Band; Multi-Op All Band; Multi-Op Single Band; SWL

Exchange: RST and serial no

Score Calculation: (see rules)

Submit logs by: 27 August 2012

E-mail logs to: zs4bfn@netactive.co.za

Mail logs to: Bloemfontein RAC, Box 12104, Brandhof, 9324, South Africa

Find rules at:

http://www.sarl.org.za/public/contests/SARL_2012_Contest_Manual_issue_10.pdf

ARRL Rookie RTTY Roundup

18:00 - 23:59 UTC 19 August

Mode: RTTY

Bands: 80, 40, 20, 15, 10, 6 m

Classes: Single Op Rookie; Multi-Op Rookie; Non-Rookies

Max power: 100 watts

Exchange: NA: Name, 2-digit year first licensed and state, province, XE area or DX

Work stations: Once per band

QSO Points: 1 point per QSO with non-rookie; 2 points per QSO with rookie

Multipliers: Each US state and DC once; Each VE province once; Each XE call area once; One DX once

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 23:59 UTC 22 August 2012

E-mail logs to: (none)

Post log summary at: http://www.b4h.net/arrlrr/rr_scoresubmission.php

Mail logs to: (none)

Find rules at: <http://www.arrl.org/rookie-roundup>

Run for the Bacon QRP Contest

01:00 - 03:00 UTC 20 August

Mode: CW

Bands: 160, 80, 40, 20, 15, 10 m

Classes: Single Band; All Band

Max power: 5 watts

Exchange: RST, state, province or country and member no or power

Work stations: Once per band

QSO Points: 1 point per QSO with non-member; 3 points per QSO with member on same continent; 5 points per QSO with member on different continent

Multipliers: Each state, province or country once; multiply mults by 2 if >50 members worked

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 26 August 2012

E-mail logs to: (none)

Upload log at: <http://fpqrp.org/pigrun/autolog.php>

Mail logs to: (none)

Find rules at: <http://fpqrp.org/pigrun/>

Next Week's Contests





SKCC Sprint 00:00 - 02:00 UTC 22 August
CWops Mini-CWT Test, 13:00 - 14:00 UTC, 19:00 - 20:00 UTC 22 August and 03:00 - 04:00 UTC 23 August
QRP Fox Hunt, 01:00 - 02:30 UTC 24 August
NCCC Sprint Ladder, 02:30 - 03:00 UTC 24 August
Hawaii QSO Party, 04:00 UTC 25 August to 22:00 UTC 26 August
SCC RTTY Championship, 12:00 UTC 25 August to 11:59 UTC 26 August
Kansas QSO Party, 14:00 UTC 25 August to 02:00 UTC 26 August and 14:00 - 20:00 UTC 26 August
QRP ARCI Welcome to QRP, 15:00 - 18:00 UTC 25 August
Ohio QSO Party, 16:00 UTC 25 August to 04:00 UTC 26 August
CVA DX SSB Contest, 21:00 UTC 25 August to 21:00 UTC 26 August
SARL HF CW Contest, 13:00 - 16:00 UTC 26 August

History This Week

A look back at events that made history this week - compiled by the Summerland Amateur Radio Club of Lismore, NSW and Dennis, ZS4BS. The week starting Monday 13 August 2012.

1587 - Virginia Dare, the first English child born in the New World
1743 - Earliest boxing code of rules formulated in England - Jack Broughton
1787 - W Herschel discovers Enceladus, a moon of Saturn
1807 - Robert Fulton's steamboat Clermont begins its first trip up Hudson River
1841 - John Hampson patents the venetian blind
1870 - The US Transcontinental Railway actually completed
1896 - The Dial telephone patented

Items used with acknowledgement to The ARRL Letter, Amateur Radio Newsline, OPDX Bulletin, 425 DX Bulletin, DXNL Bulletin, ARRL DX News, WIA-News, the RSGB News and Southgate ARC



"Amateur radio is the most exciting of all technological hobbies"

